- 50 -

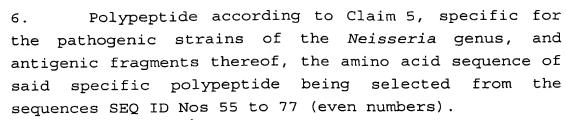
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CLAIMS

- isolated form, encoding a acid in Nucleic polypeptide specific for the pathogenic strains of the or antigenic fragment thereof, genus, Neisseria excluding the sequences SEQ ID Nos 70A, 73A, 74A, 77A, 80A, 81A, 87A, 88A, 89A, 94A, 95A and 98A, the amino specific polypeptide said sequence of identical or homologous to a sequence selected from the group II, group II consisting sequences of sequences SEQ ID No. 2 to SEQ ID No. 52 (even numbers) and the sequence SEQ ID No. 53.
- 2. Nucleic acid according to Claim 1, the nucleotide sequence of which is identical or homologous to a sequence selected from the sequences of group I, group I consisting of the sequences SEQ ID No. 1 to SEQ ID No. 51 (odd numbers).
- 3. Nucleic acid according to Claim 1, encoding a polypeptide specific for the pathogenic strains of the 20 Neisseria genus, or antigenic fragment thereof, the amino acid sequence of said specific polypeptide being selected from the sequences SEQ ID Nos 55 to 77 (odd numbers).
- 4. Nucleic acid according to Claim 3, having a nucleotide sequence selected from the sequences SEQ ID Nos 54 to 76 (even numbers).
- 5. Polypeptide specific for the pathogenic strains of the Neisseria genus, and antigenic fragments thereof, the amino acid sequence of said specific polypeptide being identical or homologous to a sequence selected from the sequences of group II, consisting of the sequences SEQ ID No. 2 to SEQ ID No. 52 (even numbers) and the sequence SEQ ID No. 53.

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- p. Expression vector comprising an expression cassette in which a nucleotide sequence as defined in one of Claims 1 to 4 is placed under conditions allowing its expression in a host cell.
- 10 8. Host cell transformed with the expression vector according to them 7.
 - 9. Pharmadeutical composition comprising:
 - a) a nucleic acid according to one of Claims 1 to 4, in naked form or in combination with at least one agent facilitating transfection;
 - b) or a vaccination vector comprising a nucleotide sequence as defined in one of Claims 1 to 4, such as in particular a virus or a bacterium;
- c) or a polypeptide according to either of 20 Claims 5 and 6;

optionally in combination with a pharmaceutically acceptable vehicle.

- 10. Monospecific antibody directed against a polypeptide according to either of Claims 5 and 6.
- 25 11. Use of a nucleic acid according to one of Claims 1 to 4, or of a polypeptide specific for pathogenic Neisseria strains or of antigenic fragments thereof, according to either of Claims 5 and 6, for manufacturing a pharmaceutical composition intended for vaccination against Neisseria.

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